

Name: _____ Date: _____

Heat Worksheet 1



Learning Lab®

Heat Transfer Investigation

- Record your findings from the ice melting investigation in the table below, making notes to describe how melted each ice cube looks.

Time (minutes)	No Material	Cooking Foil	Water	Towel/Fabric	Plastic Carrier Bag/ Bubble Wrap
10					
20					
30					
40					
50					
60					
70					
80					
90					

- How long did each ice cube take to completely melt? If you still had some ice by the end of the investigation, that cube's melt time will be the total experiment time.

Material	Melt time (minutes)
No Material	
Cooking Foil	
Water	
Towel/Fabric	
Plastic Carrier Bag/Bubble Wrap	

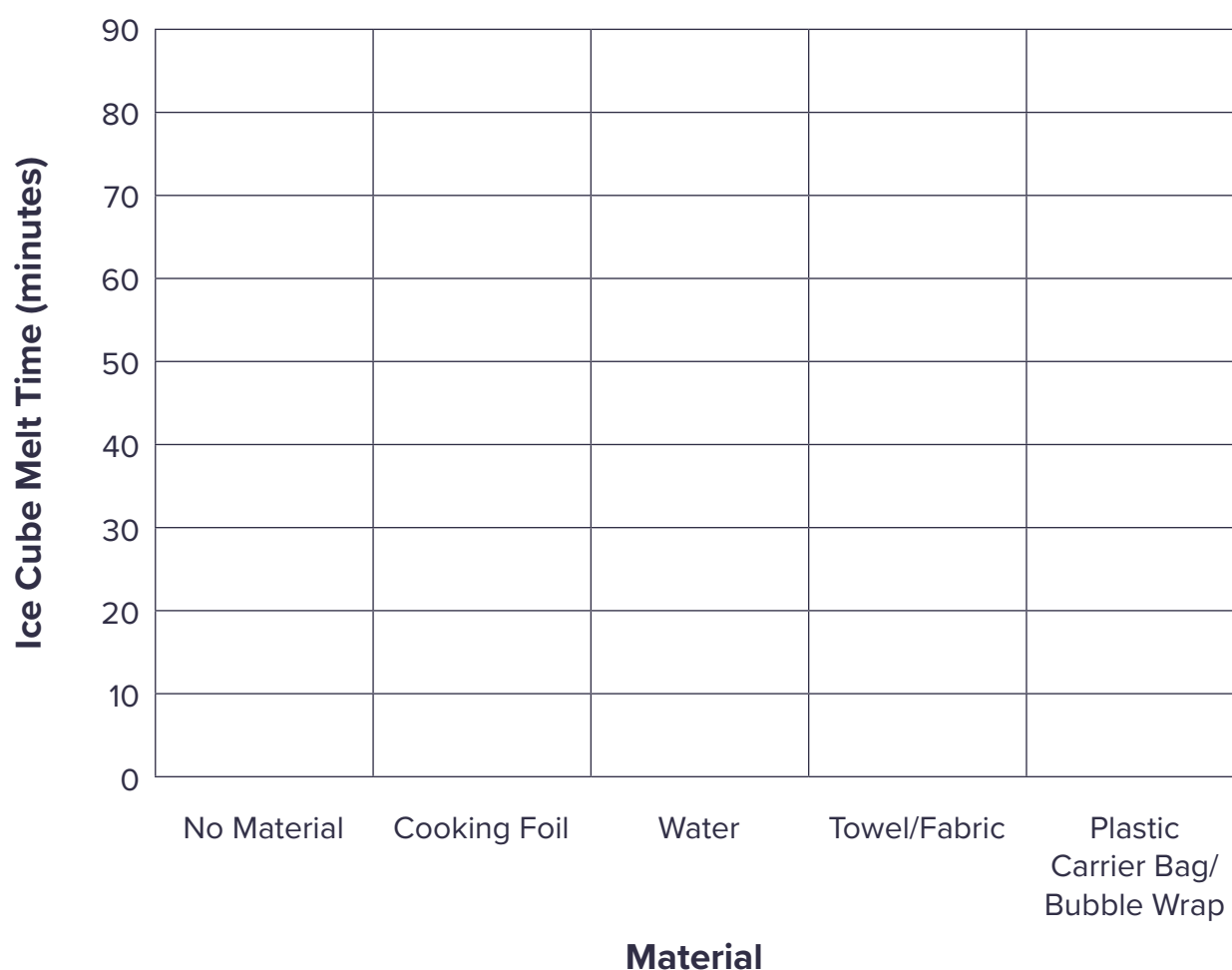


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3. Create a bar graph showing how long it took each ice cube to melt.

Heat Transfer Investigation



4. Which of the materials acted as the best insulator, and which was the worst?

Best insulator:

Worst insulator:



5. Why do you think it's helpful for pipes that carry hot water to be made of materials which are good insulators?

6. Do you think refrigerants are a conductor or an insulator, and why?

7. Why do you think it's important that Material Scientists investigate different materials that could be used in a home heating system?